

SEQUENCE LISTING



<110> Accola, Molly
 Wigdal, Susan S.
 Mast, Andrea L.
 Bartholomay, Christian T.
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 Ip, Hon S.
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 Agarwal, Poonam
 Jarvis, Nancy
 Hall, Jeffrey
 Heisler, Laura

<120> CFTR Allele Detection Assays

<130> FORS-08453

<140> 10/713,653

<141> 2003-11-14

<160> 518

<170> PatentIn version 3.2

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<400> 85
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 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 97
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 98
 <211> 41
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 98
 cgcagaacaa tgcagaatga gatggtggtg aatattttcc t 41

<210> 99
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 99
 cgcgccgagg ggaggatgat tcctttgat 29

<210> 100
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 100
 acggacgcgg agagaggatg attcctttga tta 33

<210> 101
 <211> 66
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 101
 gcactaatca aaggaatcat cctccggaaa atattcacca ccatctcatt ctgcattggt 60
 ctgcgt 66

<210> 102
 <211> 66
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 102
 gcactaatca aaggaatcat cctctggaaa atattcacca ccatctcatt ctgcattggt 60
 ctgcgt 66

<210> 103
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 103
tctagccggt tttccggctg agacctcggc gcg

33

<210> 104
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
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<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 104
tctagccggt tttccggctg agactccgcg tccgt

35

<210> 105
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 105
agaatcatag cttcctatga cccggataac aaggaggaac t

41

<210> 106
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 106
cgcgccgagg gctctatcgc gatttatcta

30

<210> 107
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 107
 aggccacgga cgactctatc gcgatttatc tag 33

<210> 108
 <211> 68
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 108
 atgcctagat aaatcgcgat agagcgttcc tccttgttat ccgggtcata ggaagctatg 60
 attcttct 68

<210> 109
 <211> 68
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 109
 atgcctagat aaatcgcgat agagtgttcc tccttgttat ccgggtcata ggaagctatg 60
 attcttct 68

<210> 110
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 110
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 111
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <220>
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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 111
 tcttcggcct tttggccgag agacgtccgt ggcct 35

 <210> 112
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 112
 tttggttgctg ctgtggctcc ttggaaagtg at 32

 <210> 113
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 113
 aggccacgga cggtattcca tgcctattg tg 32

 <210> 114
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 114
 acggacgcgg agatattcca tgcctattg tg 32

 <210> 115
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 115
tctacacaat aggacatgga atactcactt tccaaggagc cacagcacia ccaaat 56

<210> 116
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 116
tctacacaat aggacatgga atattcactt tccaaggagc cacagcacia ccaaat 56

<210> 117
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 117
tcttcggcct tttggccgag agacgtccgt ggcct 35

<210> 118
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 118
tctagccggt tttccggctg agactccgcg tccgt 35

<210> 119
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 119
ccttcggcga tggttttttct ggagatttat gttctatgga att 43

<210> 120
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 120
 aggccacgga cgctttttat atttaggggt aaggatct 38

 <210> 121
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 121
 acggcgcgg agctttatat ttaggggtaa ggatctc 37

 <210> 122
 <211> 77
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 122
 acaaatgaga tccttacccc taaatataaa aagattccat agaacataaa tctccagaaa 60
 aaacatcgcc gaagggc 77

 <210> 123
 <211> 75
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 123
 acaaatgaga tccttacccc taaatataaa gattccatag aacataaatc tccagaaaaa 60
 acatcgccga agggc 75

 <210> 124
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 124
 tcttcggcct tttggccgag agacgtccgt ggcct 35

 <210> 125
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 125
 tctagccggt tttccggctg agactccgcg tccgt 35

 <210> 126
 <211> 47
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 126
 tgcatgtac catgaataga acatttcctt tcagggtgtc ttactct 47

 <210> 127
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 127
 cgcgccgagg gccattttaa tactgcaaca ga 32

 <210> 128
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 128
 acggacgcgg agaccatttt aatactgcaa cag 33

<210> 129
 <211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 129
 ccatctgttg cagtattaaa atggcgagta agacaccctg aaaggaaatg ttctattcat 60
 ggtacaatgc at 72

 <210> 130
 <211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 130
 ccatctgttg cagtattaaa atggcgagta agacaccctg aaaggaaatg ttctattcat 60
 ggtacaatgc at 72

 <210> 131
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 131
 tcttcggcct tttggccgag agacctcggc gcg 33

 <210> 132
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 132
 tctagccggt tttccggctg agactccgcg tccgt 35

<210> 133
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 133
 gctcacctgt ggtatcactc caaaggcttt ccta 34

 <210> 134
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 134
 acggacgcgg agccactggt gcaaagttat t 31

 <210> 135
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 135
 cgcgccgagg tcactgttgc aaagttattg 30

 <210> 136
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 136
 gattcaataa ctttgcaaca gtggaggaaa gcctttggag tgataccaca ggtgagcaat 60

 <210> 137
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 137
 gattcaataa ctttgcaaca gtgaaggaaa gcctttggag tgataccaca ggtgagcaat 60

<210> 138
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 138
 tctagccggt tttccggctg agactccgcg tccgt 35

<210> 139
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 139
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 140
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 140
 aataggacat ctccaagttt gcagagaaag acaatatagt tcttc 45

<210> 141
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 141
 aggccacgga cgggagaagg tggaatcac 29

<210> 142
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 142
 cgcgccgagg tgagaagggtg gaatcaca 28

 <210> 143
 <211> 67
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 143
 tcagtgtgat tccaccttct ccaagaacta tattgtcttt ctctgcaaac ttggagatgt 60
 cctatattt 67

 <210> 144
 <211> 67
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 144
 tcagtgtgat tccaccttct caaagaacta tattgtcttt ctctgcaaac ttggagatgt 60
 cctatattt 67

 <210> 145
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 145
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 146
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 146
 tctagccggt tttccggctg agacctcggc gcg 33

 <210> 147
 <211> 49
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 147
 gcaattttgg atgaccttct gcctcttacc atatttgact tcatccagt 49

 <210> 148
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 148
 aggccacgga cggatatgtaa aaataagtac cggt 34

 <210> 149
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 149
 cgcgccgagg atatgtaaaa ataagtaccg ttaa 34

 <210> 150
 <211> 79
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 150
 atacttaacg gtacttattt ttacatacct ggatgaagtc aaatatggta agaggcagaa 60
 ggatcatccaa aattgctat 79

<210> 151
 <211> 79
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 151
 atacttaacg gtacttattt ttacatatct ggatgaagtc aaatatggta agaggcagaa 60
 ggatcatccaa aattgctat 79

<210> 152
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 152
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 153
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 153
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 154
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 154
 cctacaccca gccatttttg gccttcatca caa 33

<210> 155
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 155
 cgcgccgagg ttggaatgca gatgagaata 30

<210> 156
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 156
 acggacgcgg agctggaatg cagatgagaa 30

<210> 157
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 157
 tagctattct catctgcatt ccaatgtgat gaaggccaaa aatggctggg tgtaggagt 59

<210> 158
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 158
 tagctattct catctgcatt ccagtgtgat gaaggccaaa aatggctggg tgtaggagt 59

<210> 159
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 159
 tctagccggt tttccggctg agacctcggc gcg 33

 <210> 160
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 160
 tctagccggt tttccggctg agactccgcg tccgt 35

 <210> 161
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 161
 gcctttccag ttgtataatt tataacaata gtgcctaaaa gattaaatca ataggtacat 60
 t 61

 <210> 162
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 162
 cgcgccgagg acttcatcaa atttgttcag 30

<210> 163
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 163
 aggccacgga cgaattcatc aaatttggtc agg 33

<210> 164
 <211> 88
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 164
 aacaacctga acaaatttga tgaagtatgt acctattgat ttaatctttt aggcactatt 60
 gttataaatt atacaactgg aaaggcgt 88

<210> 165
 <211> 88
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 165
 aacaacctga acaaatttga tgaattatgt acctattgat ttaatctttt aggcactatt 60
 gttataaatt atacaactgg aaaggcgt 88

<210> 166
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 166
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 167
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 167
 tctagccggt tttccggctg agacctcggc gcg 33

 <210> 168
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 168
 tcaccttgct aaagaaattc ttgctcgttg acctccaa 38

 <210> 169
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 169
 acggacgcgg agctcagtgt gattccacc 29

 <210> 170
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 170
 cgcgccgagg ttcagtgtga ttccacc 27

<210> 171
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 171
 agaaggtgga atcacactga gtggagggtca acgagcaaga atttcttttag caaggtgaat 60
 t 61

 <210> 172
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 172
 agaaggtgga atcacactga atggagggtca acgagcaaga atttcttttag caaggtgaat 60
 t 61

 <210> 173
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 173
 tctagccggt tttccggctg agactccgcg tccgt 35

 <210> 174
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 174
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 175
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 175
 tgagtacatt gcagtgggct gtaaactcca gcatat 36

 <210> 176
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 176
 acggacgcgg aggatgtgga tagcttgga 30

 <210> 177
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 177
 aggccacgga cgcagtgtgga tagcttgga 30

 <210> 178
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 178
 agacttacca agctatccac atctatgctg gagtttacag cccactgcaa tgtactcatg 60
 t 61

 <210> 179
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 179
agacttacca agctatccac atgtatgctg gagtttacag cccactgcaa tgtactcatg 60
t 61

<210> 180
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 180
tctagccggt tttccggctg agactccgcg tccgt 35

<210> 181
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 181
tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 182
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 182
gatctggatt tctccttcag tggtcagtag tctcat 36

<210> 183
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 183
 aggccacgga cgaaaaagct gataacaaag tact 34

<210> 184
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 184
 cgcgccgagg aaaaaagctg ataacaaagt act 33

<210> 185
 <211> 70
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 185
 caggggaagag tactttgtta tcagcttttt tgagactact gaacactgaa ggagaaatcc 60
 agatcgatgg 70

<210> 186
 <211> 71
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 186
 caggggaagag tactttgtta tcagcttttt ttgagactac tgaacactga aggagaaatc 60
 cagatcgatg g 71

<210> 187
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 187
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 188
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 188
 tctagcggt tttccggctg agacgtccgt ggcct 35

 <210> 189
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 189
 ccacaaagct ctgaatttac atactgccaa ctggttcttg tat 43

 <210> 190
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 190
 cgcgccgagg cctgtcaaca ctgc 24

 <210> 191
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 191
 acggacgcgg aggctgtcaa cactgcg 27

 <210> 192
 <211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 192
 ccagcgcagt gttgacaggt acaagaacca gttggcagta tgtaaattca gagctttgtg 60
 gaat 64

<210> 193
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 193
 ccagcgcagt gttgacagct acaagaacca gttggcagta tgtaaattca gagctttgtg 60
 gaat 64

<210> 194
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 194
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 195
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 195
 tcttcggcct tttggccgag agactccgcg tccgt 35

<210> 196
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 196
 acatttcctt ctcaataagt cctggccaga ggggtgt 36

<210> 197
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 197
 aggccacgga cgagatttga acactgcttg 30

<210> 198
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 198
 cgcgccgagg ggatttgaac actgcttg 28

<210> 199
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 199
 aaagcaagca gtgttcaaat ctcaccctct ggccaggact tattgagaag gaaatgttct 60

<210> 200
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 200
 aaagcaagca gtgttcaaat cccaccctct ggccaggact tattgagaag gaaatgttct 60

<210> 201
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 201
 tcttcggcct tttggccgag agacctcggc gcg 33

 <210> 202
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 202
 tctagccggt tttccggctg agacgtccgt ggcct 35

 <210> 203
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 203
 ccttcagtgt tcagtagtct caaaaaagct gataacaaag tactcttcct 50

 <210> 204
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 204
 cgcgccgagg ctgatccagt tcttcccv 28

<210> 205
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 205
 aggccacgga cgcatccag ttcttcccv 29

 <210> 206
 <211> 73
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 206
 ctcttgaggaa gaactggatc agggaagagt actttgttat cagctttttt gagactactg 60
 aacactgaag gag 73

 <210> 207
 <211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 207
 ctcttgaggaa gaactggatc gggaagagta ctttgttatc agcttttttg agactactga 60
 aactgaagg ag 72

 <210> 208
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 208
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 209
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 209
 tctagccggt tttccggctg agacgtccgt ggcct 35

 <210> 210
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 210
 tggtgccagg cataatccag gaaaactt 28

 <210> 211
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 211
 acggacgcgg aggagaacag aatgaaattc t 31

 <210> 212
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 212
 aggccacgga cgaagaacag aatgaaattc ttcc 34

<210> 213
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 213
 cagtgggaaga atttcattct gttctcagtt ttcctggatt atgcctggca ccattt 56

<210> 214
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 214
 cagtgggaaga atttcattct gttcttagtt ttcctggatt atgcctggca ccattt 56

<210> 215
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 215
 tctagccggt tttccggctg agactccgcg tccgt 35

<210> 216
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 216
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 217
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 217
 tggagaaggt ggaatcacac tgagtggagt 30

<210> 218
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 218
 cgcgccgagg gtcaacgagc aagaatttv 29

<210> 219
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 219
 aggccacgga cgatcaacga gcaagaattt cv 32

<210> 220
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 220
 ctaaagaaat tcttgctcgt tgacctccac tcagtgtgat tccaccttct ccaagt 56

<210> 221
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 221
 ctaaagaaat tcttgctcgt tgatctccac tcagtgtgat tccaccttct ccaagt 56

<210> 222
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 222
 tctagccggt tttccggctg agacctcggc gcg 33

 <210> 223
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 223
 tctagccggt tttccggctg agacgtccgt ggcct 35

 <210> 224
 <211> 47
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 224
 gctagaccaa taattagtta ttcaccttgc taaagaaatt cttgctg 47

 <210> 225
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 225
 aggccacgga cgcgttgacc tccactca 28

<210> 226
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 226
 cgcgccgagg cattgacctc cactcagt 28

 <210> 227
 <211> 73
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 227
 tcacactgag tggagggtcaa cgagcaagaa tttctttagc aagggtgaata actaattatt 60
 ggtctagcaa gct 73

 <210> 228
 <211> 73
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 228
 tcacactgag tggagggtcaa tgagcaagaa tttctttagc aagggtgaata actaattatt 60
 ggtctagcaa gct 73

 <210> 229
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 229
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 230
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 230
tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 231
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 231
gtttaccttc tgttgcatg tcaatgaact taaagactct 40

<210> 232
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 232
acggacgcgg agggctcaca gatcgcv 27

<210> 233
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 233
aggccacgga cgagctcaca gatcgcv 27

<210> 234
 <211> 58
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 234
 agatgcgatc tgtgagccga gtctttaagt tcattgacat gccaacagaa ggtaaact 58

<210> 235
 <211> 58
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 235
 agatgcgatc tgtgagctga gtctttaagt tcattgacat gccaacagaa ggtaaact 58

<210> 236
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 236
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 237
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 237
 tctagccggt tttccggctg agactccgcg tccgt 35

<210> 238
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 238
 caccttgcta aagaaattct tgctcgttga cctccacc 38

<210> 239
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 239
 cgcgccgagg tcagtgtgat tccacctv 28

<210> 240
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 240
 aggccacgga cggcagtgtg attccac 27

<210> 241
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 241
 gagaagggtgg aatcacactg agtggaggtc aacgagcaag aatttcttta gcaaggtgaa 60
 t 61

<210> 242
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 242
 gagaagggtgg aatcacactg cgtggaggtc aacgagcaag aatttcttta gcaaggtgaa 60
 t 61

<210> 243
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 243
tctagccggt tttccggctg agacctcggc gcg

33

<210> 244
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 244
tcttcggcct tttggccgag agacgtccgt ggcct

35

<210> 245
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 245
cagttttcct ggattatgcc tggcaccatt aaagaaaata tcatctc

47

<210> 246
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 246
cgcgccgagg ttggtgtttc ctatgatgaa t

31

<210> 247
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 247
 aggccacgga cggtggtgtt tcctatgatg 30

 <210> 248
 <211> 73
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 248
 tatattcatc ataggaaaca ccaaagatga tatttttcttt aatggtgcca ggcataatcc 60
 aggaaaaactg agt 73

 <210> 249
 <211> 73
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 249
 tatattcatc ataggaaaca ccacagatga tatttttcttt aatggtgcca ggcataatcc 60
 aggaaaaactg agt 73

 <210> 250
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 250
 tctagccggt tttccggctg agacctcggc gcg 33

<210> 251
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 251
tcttcggcct tttggccgag agacgtccgt ggcct 35

<210> 252
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 252
ccacaaagct ctgaatttac atactgccaa ctggttcttg tat 43

<210> 253
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 253
cgcgccgagg cctgtcaaca ctgcg 25

<210> 254
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 254
aggccacgga cgactgtcaa cactgcg 27

<210> 255
 <211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 255
 ccagcgcagt gttgacaggt acaagaacca gttggcagta tgtaaattca gagctttgtg 60
 gaat 64

 <210> 256
 <211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 256
 ccagcgcagt gttgacagtt acaagaacca gttggcagta tgtaaattca gagctttgtg 60
 gaat 64

 <210> 257
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 257
 tctagccggt tttccggctg agacctcggc gcg 33

 <210> 258
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 258
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 259
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 259
 agttattcac cttgctaaag aaattcttgc tcgttgacct cct 43

 <210> 260
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 260
 aggccacgga cgactcagtg tgattccacc 30

 <210> 261
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 261
 cgcgccgagg cctcagtggtg attccacv 28

 <210> 262
 <211> 66
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 262
 gaaggtggaa tcacactgag tggaggtcaa cgagcaagaa tttctttagc aaggtgaata 60
 actaat 66

 <210> 263
 <211> 66
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 263
gaaggtggaa tcacactgag gggaggtcaa cgagcaagaa tttcttttagc aaggtgaata 60
actaat 66

<210> 264
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 264
tcttcggcct tttggccgag agacgtccgt ggcct 35

<210> 265
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 265
tctagccggt tttccggctg agacctcggc gcg 33

<210> 266
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 266
catgctttga tgacgcttct gtatctatat tcatcatagg aaacaccaaa t 51

<210> 267
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 267
 acggacgcgg aggatgatat tttctttaat ggtg 34

<210> 268
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 268
 aggccacgga cggatat ttt ctttaatggt gcc 33

<210> 269
 <211> 82
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 269
 atgcctggca ccattaaaga aaatatcatc tttggtgttt cctatgatga atatagatac 60
 agaagcgtca tcaaagcatg cc 82

<210> 270
 <211> 79
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 270
 atgcctggca ccattaaaga aaatatcttt ggtgtttcct atgatgaata tagatacaga 60
 agcgtcatca aagcatgcc 79

<210> 271
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 271
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 272
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 272
 tctagccggt tttccggctg agactccgcg tccgt 35

 <210> 273
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 273
 cgcgccgagg gttttttaaca gggatttggg 30

 <210> 274
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 274
 cgcgccgagg gtttttttaa cagggatttg g 31

 <210> 275
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> modified_base
 <222> (12)..(12)
 <223> 2' O-methyl

 <220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<400> 275
cgcgccgagg gntttttttt accagggatt tgggga 36

<210> 276
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 276
ctcatctttt atttttgatg tgtgtgtgtg tgtgtgta 38

<210> 277
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 277
ctcatctttt atttttgatg tgtgtgtgtg tgtgtgtgta 40

<210> 278
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 278
ctcatctttt atttttgatg tgtgtgtgtg tgtgtgtgtg ta 42

<210> 279
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 279
ctcatctttt atttttgatg tgtgtgtgtg tgtgtgtgtg tgta 44

<210> 280
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 280
ctcatctttt atttttgatg tgtgtgtgtg tgtgta 36

<210> 281
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z28 quencher.

<400> 281
tctagccggt tttccggctg agacctcggc gcg 33

<210> 282
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 282
gtgtcctcac aataaaagaga aggcataagc ctatgcctaa 40

<210> 283
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 283
acggacgcgg aggataaatc gcgatagagc 30

<210> 284
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 284
aggccacgga cggttaaatc gcgatagag 29

<210> 285
 <211> 65
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 285
 ggaacgctct atcgcgattt atctaggcat aggcttatgc cttctcttta ttgtgaggac 60
 actgt 65

 <210> 286
 <211> 65
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 286
 ggaacgctct atcgcgattt aactaggcat aggcttatgc cttctcttta ttgtgaggac 60
 actgt 65

 <210> 287
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 287
 tcttcggcct tttggccgag agactccgcg tccgt 35

 <210> 288
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 288
 tctagccggt tttccggctg agacgtccgt ggcct 35

<210> 289
 <211> 54
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 289
 gactctcctt ttggatacct agatgtttta acagaaaaag aaatatttga aagt 54

 <210> 290
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 290
 acggacgcgg aggtatgttc tttgaatacc ttact 35

 <210> 291
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 291
 cgcgccgagg atatgttctt tgaatacctt actt 34

 <210> 292
 <211> 82
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 292
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 catctaggtat tccaaaagga gt 82

 <210> 293
 <211> 82
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 293
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 catctaggta tccaaaagga gt 82

<210> 294
 <211> 35
 <212> DNA
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<220>
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<220>
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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

<400> 294
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<210> 295
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<220>
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<220>
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<400> 295
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<210> 296
 <211> 32
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<220>
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<400> 296
 tttggttgctg ctgtggctcc ttggaaagtg at 32

<210> 297
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<400> 297
 cgcgccgagg atattccatg tcctattgtg 30

<210> 298
 <211> 58
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<220>
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<400> 298
 caatctacac aataggacat ggaatattca ctttccaagg agccacagca caaccaaa 58

<210> 299
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 299
 gtttaccttc tgttggcatg tcaatgaact taaagactct 40

<210> 300
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<220>
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<400> 300
 cgcgccgagg agctcacaga tcgc 24

<210> 301
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 301
 tcagatgcga tctgtgagct gagtctttaa gttcattgac atgccaacag aaggtaaac 59

<210> 302
 <211> 28
 <212> DNA
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<220>
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<400> 302
cagggaaatt gccgagtgac cgccatgt 28

<210> 303
<211> 27
<212> DNA
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<220>
<223> Synthetic

<400> 303
acggacgcgg agggcagaac aatgcag 27

<210> 304
<211> 50
<212> DNA
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<220>
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<400> 304
ctcattctgc attgttctgc ccatggcggt cactcggcaa tttccctggg 50

<210> 305
<211> 54
<212> DNA
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<220>
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<400> 305
gactctcctt ttggatacct agatgtttta acagaaaaag aaatatttga aagt 54

<210> 306
<211> 36
<212> DNA
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<400> 306
cgcgccgagg atatgttctt tgaatacctt acttat 36

<210> 307
<211> 79
<212> DNA
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<220>
<223> Synthetic

<400> 307
 ataagtaagg tattcaaaga acatatcttt caaatatttc tttttctgtt aaaacatcta 60
 ggtatccaaa aggagagtc 79

<210> 308
 <211> 38
 <212> DNA
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<220>
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<400> 308
 ccccaaaactc tccagtctgt ttaaaagatt attttttc 38

<210> 309
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<220>
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<400> 309
 cgcgccgagg gtttctgtcc aggagaca 28

<210> 310
 <211> 47
 <212> DNA
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<220>
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<400> 310
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<220>
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<400> 311
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<210> 312
 <211> 77
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 <220>
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 <400> 312
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 cgtcacaaa gcatgcc 77

 <210> 313
 <211> 41
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 <400> 313
 gcccttcggc gatgtttttt ctggagattt atgttctatg t 41

 <210> 314
 <211> 37
 <212> DNA
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 <220>
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 <400> 314
 acggacgcgg agaaatcttt ttatathtag gggtaag 37

 <210> 315
 <211> 74
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 315
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 gccgaagggc atta 74

 <210> 316
 <211> 39
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 316
 aatcatagct tcctatgacc cggataacaa ggaggaact 39

<210> 317
 <211> 29
 <212> DNA
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 <220>
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 <400> 317
 cgcgccgagg actctatcgc gatttatct 29

 <210> 318
 <211> 63
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 318
 atgcctagat aaatcgcgat agagtgttcc tccttggtat ccgggtcata ggaagctatg 60
 att 63

 <210> 319
 <211> 53
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 319
 catgaatgac atttacagca aatgcttgct agaccaataa ttagttattc act 53

 <210> 320
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 320
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 <211> 83
 <212> DNA
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 <220>
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<400> 321
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 ctgtaaatgt cattcatgta aaa 83

<210> 322
 <211> 49
 <212> DNA
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<220>
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<400> 322
 gcaattttgg atgaccttct gcctcttacc atatttgact tcatccagt 49

<210> 323
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 323
 cgcgccgagg atatgtaaaa ataagtaccg ttaa 34

<210> 324
 <211> 86
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 324
 agacatactt aacggtactt attttttacat atctggatga agtcaaatat ggtaagaggc 60
 agaagggtcat ccaaaaattgc tatatc 86

<210> 325
 <211> 36
 <212> DNA
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<220>
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<400> 325
 gagagttggc cattcttgta tggtttggtt gacttt 36

<210> 326
 <211> 30
 <212> DNA
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 <220>
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 <400> 326
 cgcgccgagg gtaggtttac cttctgttgg 30

<210> 327
 <211> 59
 <212> DNA
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 <220>
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 <400> 327
 catgccaaca gaaggtaaac ctacaagtca accaaaccat acaagaatgg ccaactctc 59

<210> 328
 <211> 45
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 <220>
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 <400> 328
 cctgaaagat attaatattca agatagaaag aggacagttg ttggt 45

<210> 329
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 329
 acggacgcgg agaggttgct ggatcca 27

<210> 330
 <211> 63
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 330
 ccagtggatc cagcaacctc caacaactgt cctcttttcta tcttgaaatt aatatctttc 60
 agg 63

<210> 331
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 331
 agtgcacatagg gaagcacaga taaaaacacc acat 34

 <210> 332
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
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 cgcgccgagg agaaccctga gaagaagaa 29

 <210> 333
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 333
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 <210> 334
 <211> 53
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 334
 gcagagaaag acaatatagt tcttgagaa ggtggaatca cactgagtgg agt 53

 <210> 335
 <211> 30
 <212> DNA
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 <220>
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 <400> 335
 cgcgccgagg atcaacgagc aagaatttct 30

<210> 336
 <211> 86
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 336
 cttgctaaaag aaattcttgc tcgttgatct ccactcagtg tgattccacc ttctccaaga 60
 actatattgt ctttctctgc aaactt 86

 <210> 337
 <211> 39
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 337
 aaatcaaact aaacatagct attctcatct gcattccat 39

 <210> 338
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 338
 acggacgcgg aggtgtgatg aaggccaaa 29

 <210> 339
 <211> 60
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 339
 ccatttttgg ccttcatcac actggaatgc agatgagaat agctatgttt agtttgattt 60

 <210> 340
 <211> 40
 <212> DNA
 <213> Artificial Sequence

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 <400> 340
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<210> 341
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 <212> DNA
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 <220>
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 <400> 341
 cgcgccgagg cttttttcta aatgttccag aaaaa 35

 <210> 342
 <211> 74
 <212> DNA
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 <220>
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 <400> 342
 atttattttt tctggaacat ttagaaaaaa gttggatccc tatgaacagt ggagtgatca 60
 agaaatatgg aaag 74

 <210> 343
 <211> 61
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 343
 gcctttccag ttgtataatt tataacaata gtgcctaaaa gattaaatca ataggtacat 60
 t 61

 <210> 344
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 344
 cgcgccgagg aattcatcaa atttggttcag gt 32

 <210> 345
 <211> 82
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 345
 acctgaacaa atttgatgaa ttatgtacct attgatttaa tcttttaggc actattgtta 60
 taaattatac aactggaaag gc 82

<210> 346
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 346
 gcctttcaaa ttcagattga gcatactaaa agtgactctc taattttcta tttttggtaa 60
 tat 63

<210> 347
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 347
 cgcgccgagg agacatctcc aagtttgc 28

<210> 348
 <211> 89
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 348
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 atgctcaatc tgaatttgaa aggcacatc 89

<210> 349
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 349
 gctcacctgt ggtatcactc caaaggcttt ccta 34

<210> 350
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 350
 cgcgccgagg tcactgttgc aaagttattg 30

<210> 351
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 351
 gattcaataa ctttgcaaca gtgaaggaaa gcctttggag tgataccaca ggtgagcaa 59

<210> 352
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 352
 caagagtctt ccatctgttg cagtattaaa atgga 35

<210> 353
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 353
 cgcgccgagg tgagtaagac accctgaaa 29

<210> 354
 <211> 57
 <212> DNA
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 <220>
 <223> Synthetic

 <400> 354
 ttcctttcag ggtgtcttac tcaccatttt aatactgcaa cagatggaag actcttg 57

<210> 355
 <211> 65
 <212> DNA
 <213> Artificial Sequence

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 <400> 355
 catttacagc aaatgcttgc tagaccaata attagttatt caccttgcta aagaaattct 60
 tgctg 65

 <210> 356
 <211> 28
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 <400> 356
 cgcgccgagg cattgacctc cactcagt 28

 <210> 357
 <211> 82
 <212> DNA
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 <220>
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 <400> 357
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 tagcaagcat ttgctgtaaa tg 82

 <210> 358
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 <400> 358
 tccaagtttg cagagaaaga caatatagtt ctttc 35

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 <220>
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<400> 359
 cgcgccgagg gagaaggtgg aatcaca 27

<210> 360
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 360
 tgtgattcca ccttctcaaa gaactatatt gtctttctct gcaaacttgg a 51

<210> 361
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 361
 ccttcatcac attggaatgc agatgagaat agctatgttt agtttgattt ataagaagc 59

<210> 362
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 362
 cgcgccgagg ttaatacttc cttgcacagg 30

<210> 363
 <211> 86
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 363
 ggggcctgtg caaggaagta ttaacttctt ataaatcaaa ctaaakatag ctattctcat 60

ctgcattcca atgtgatgaa ggccaa 86

<210> 364
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 <212> DNA
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<220>
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<400> 364
 cgcagaacaa tgcagaatga gatggtggtg aatattttcc t 41

<210> 365
 <211> 31
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 <213> Artificial Sequence

<220>
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<400> 365
 cgcgccgagg agaggatgat tcctttgatt a 31

<210> 366
 <211> 66
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 366
 tgcactaatc aaaggaatca tcctctggaa aatattcacc accatctcat tctgcattgt 60
 tctgcg 66

<210> 367
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 367
 tgtacttcat gctgtctaca ctaagagaga atgagagaca caca 44

<210> 368
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 368
 tccgcgcgtc ctgaagaagc accaatcatg 30

<210> 369
 <211> 68
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 369
 tttcatgatt ggtgcttctt cagtgtgtct ctcattctct cttagtgtag acagcatgaa 60
 gtacattt 68

 <210> 370
 <211> 33
 <212> DNA
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 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 370
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 <210> 371
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 371
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 <210> 372
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 372
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 <210> 373
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 373
 tgatgacgct tctgtatcta tattcatcat aggaaacaca 40

 <210> 374
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 374
 cgcgccgagg caaagatgat attttcttta atggt 35

 <210> 375
 <211> 39
 <212> DNA
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 <220>
 <223> Synthetic

 <400> 375
 agctcgtccg acacaataat attttcttta atggtgccca 39

 <210> 376
 <211> 33
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 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 376
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<210> 377
 <211> 36
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 <220>
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 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 377
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 <210> 378
 <211> 74
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 378
 tgcctggcac cattaaagaa aatatcatct ttggtgtttc ctatgatgaa tatagataca 60
 gaagcgatcat caaa 74

 <210> 379
 <211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 379
 atgcctggca ccattaaaga aaatatcatt ggtgtttcct atgatgaata tagatacaga 60
 agcgatcatca aa 72

 <210> 380
 <211> 46
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 380
 cttccttttt tccccaaact ctccagtctg tttaaaagat tgttta 46

<210> 381
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 381
 cgcgccgagg tttgtttctg tccaggag 28

<210> 382
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 382
 acggacgcgg agttttgttt ctgtccagga g 31

<210> 383
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

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<210> 384
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 384
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<210> 385
 <211> 68
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 385
 aaatatgctc tcaacataat aaaagccact atcactggca ctgttgcaac aaagatgtag 60
 gggtgtaa 68

<210> 386
 <211> 62
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 386
 aaatatgctc tcaacataat aaaagccact ggactgttg caacaaagat gtaggggtgt 60
 aa 62

<210> 387
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 387
 tgtcgcagtt ttacaaccct acatctttgt tgcaacagtg cct 43

<210> 388
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 388
 acggacgcgg agagtgatag tggcttttat tatgtt 36

<210> 389
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 389
 aggccacgga cgagtggctt ttattatgtt gagag 35

<210> 390
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 390
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 <210> 391
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z28 quencher.

 <400> 391
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 <210> 392
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 392
 acggacgcgg agaattcatc aaatttggtc agg 33

 <210> 393
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 393
 acggacgcgg agtgagtaag acaccctgaa a 31

<210>	394	
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<210>	395	
<211>	22	
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<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	395	
	aagtcaccaa agcagtacag cc	22
<210>	396	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic	
<400>	396	
	gctgtcaagc cgtgttctag ataaa	25
<210>	397	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
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<400>	397	
	cggaaggcag cctatgtgag a	21
<210>	398	
<211>	23	
<212>	DNA	
<213>	Artificial Sequence	
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